CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN FRANCISCO BAY REGION

ORDER NO. 84-86
NPDES NO. CA0006190

AMENDING WASTE DISCHARGE REQUIREMENTS FOR:

TEXACO, INC.
RICHMOND SALES TERMINAL
RICHMOND, CONTRA COSTA COUNTY

The California Regional Water Quality Control Board, San Francisco Bay Region, (hereinafter called the Board) finds that:

1. On November 17, 1982, the Board adopted Order No. 82-60, a National Pollutant Discharge Elimination System (NPDES) Permit, prescribing waste discharge requirements for Texaco, Inc. (hereinafter called the discharger) for its Richmond Sales Terminal.

2. The discharger, by application dated August 17, 1984 and by submittal date August 23, 1984, has applied for revision of its permit.

3. In addition to current operations, the discharger proposes to store Eastman Chemical Products in part of its present facility. These products are primarily organic solvents, acetates, alcohols, and plasticizers. The wastewater from this area of the site will consist of stormwater runoff, drainage and washdown from product loading and storage areas, and boiler blowdown. The wastewater will be combined with wastewater from other areas of the site, treated in the terminal A.P.I. oil-water separator, and then discharged to Santa Fe Channel of Richmond Harbor, an arm of San Francisco Bay.

4. From submittal of December 3, 1984, the discharger is planning a corporate reorganization, the effect of which will be the transfer of the facility to a wholly owned subsidiary of Texaco Inc. to be named Texaco Refining and Marketing Inc. This change is scheduled to take effect on January 1, 1985.

It is hereby ordered that Order No. 82-60 be amended as follows:

Finding number 2 shall read:

"2. The discharger currently receives and stores petroleum fuels and lubricants, and ships those products by truck. The discharger proposes to receive and store organic solvents, acetates, alcohols, and plasticizers, and ship these products by truck. The discharger's terminal discharges waste consisting of boiler blowdown, drainage and washdown from product loading and storage areas, and runoff from other parts of the terminal. There wastes are combined, treated in an oil separator, and discharged into Santa Fe Channel of Richmond Harbor, an arm of San Francisco Bay and a water of the United States at an average rate of 75,000 gallons per day and a maximum rate of 150,000 gallons per day."

Discharge Prohibitions number 2 shall read:

"2. The discharge of cleaning chemicals, products of petroleum origin, or chemicals from the Eastman Products Terminal to waters of the State is prohibited. Any spills of such materials shall be promptly cleaned up and prevented from mixing with precipitation runoff which discharges into waters of the State."

Provision number 7 shall be added:

"7. In order to prevent or minimize the potential for the release of toxic substances or other materials deleterious to water quality from ancillary activities to waters of the United States, through plant runoff, spillage or leaks, or raw material storage, the discharger shall develop and implement a Best Management Practices (BMP) plan.

The BMP plan shall be consistent with the general guidance contained in the U. S. Environmental Protection Agency publication "NPDES Best Management Practices Guidance Document," by the Office of Water Enforcement and Permits, NPDES Technical Support Branch, June 1981.

The plan shall be submitted to the Executive Officer for approval within six months of the adoption of this permit. The plan shall be implemented within twelve months of the adoption of this permit."

I, Roger B. James, Executive Officer, do hereby certify the foregoing is a full, true, and correct copy of an Order adopted by the California Regional Water Quality Control Board, San Francisco Bay Region on December 18, 1984.

ROGER B. JAMES
Executive Officer

Attachments: Self-Monitoring Program

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN FRANCISCO BAY REGION

SELF MONITORING PROGRAM
FOR

TEXACO, INC., RICHMOND SALES TERMINAL

RICHMOND, CONTRA COSTA COUNTY

NPDES NO. CA 0006190

ORDER NO. 84-86

A. GENERAL

Reporting responsibilities of waste dischargers are specified in Sections 13225(a), 13267(b), 13268, 13383, and 13387(b) of the California Water Code and this Regional Board's Resolution No. 73-16.

The principal purposes of a monitoring program by a waste discharger, also referred to as self-monitoring program, are: (1) to document compliance with waste discharge requirements and prohibitions established by this Regional Board, (2) to facilitate self-policing by the waste discharger in the prevention and abatement of pollution arising from waste discharge, (3) to develop or assist in the development of effluent or other limitations, discharger prohibitions national standards of performance, pretreatment and toxicity standards, and other standards, and (4) to prepare water and wastewater quality inventories.

B. SAMPLING AND ANALYTICAL METHODS

Sample collection, storage, and analyses shall be performed according to the latest edition of Standard Methods for the Examination of Water and Wastewater prepared and published jointly by the American Public Health Association, American Water Works Association, and Water Pollution Control Federation, or other methods approved and specified by the Executive Officer of this Regional Board. (See APPENDIX E.)

Water and waste analyses shall be performed by a laboratory approved for these analyses by the State Department of Health or a laboratory approved by the Executive Officer. The director of the laboratory whose name appears on the certification shall supervise all analytical work in his laboratory and shall sign all reports of such work submitted to the Regional Board.

All monitoring instruments and equipment shall be properly calibrated and maintained to ensure accuracy or measurements.

C. DEFINITION OF TERMS

1. A grab sample is defined as an individual sample collected in fewer than 15 minutes.

2. Standard Observations

   a. Receiving Water

      (1) Floating and suspended materials of waste origin (to include oil, grease, algae, and other macroscopic particulate matter): presence or absence, source, and size of affected area.

      (2) Discoloration and turbidity: description of color, source and size of affected area.

(3) Odor: presence or absence, characterization, source and distance of travel.

(4) Evidence of beneficial water use: presence of water-associated wildlife, fishermen, and other recreational activities in the vicinity of the sampling stations.

(5) Hydrographic condition:

(a) Time and height of high and low tides corrected to nearest location for the sampling date and time of sample and collection.

(b) Water and sampling depths.

(6) Weather condition:

(a) Air temperatures.

(b) Wind - direction and estimated velocity.

(c) Precipitation - total precipitation during the previous five days and on the day of observation.

b. Waste Effluent

(1) Floating and suspended material of waste origin (to include oil, grease, algae, and other macroscopic particulate matter): presence or absence.

(2) Odor: presence or absence, characterization, source, distance of travel.

c. Beach and Shoreline

(1) Material of wastes origin: presence or absence description of material, estimated size of affected area, and source.

(2) Beneficial use: estimated number of people sunbathing, swimming, waterskiing, surfing, etc.

d. Periphery of Waste Treatment and/or Disposal Facilities

(1) Odor: presence or absence, characterization, source and distance of travel.

(2) Weather condition: wind - direction and estimated velocity.

D. SCHEDULE OF SAMPLING, ANALYSES AND OBSERVATIONS

The discharger is required to perform observations, sampling and analyses according to the schedule in Table I with the conditions that grab samples of effluent shall be collected during periods of maximum peak flows, unless otherwise stipulated.

E. RECORDS TO BE MAINTAINED

1. Written reports, calibration and maintenance records, and other records shall be maintained at the waste treatment plant and shall be retained for a minimum of three years. This period of retention shall be extended during the course of any unresolved litigation regarding this discharge or when requested by the Regional Board or Regional Administrator of the U. S. Environmental Protection Agency, Region IX. Such records shall show the following for each sample:

   a. Identity of sampling and observation stations by number.

   b. Date and time of sampling and/or observations.

   c. Date and time that analyses are started and completed, and name or personnel performing the analyses.

   d. Complete procedure used, including method of preserving sample and identity and volume of reagents used. A reference to specific section of Standard Methods is satisfactory.

   e. Calculations of results.

   f. Results of analyses and/or observations.

2. A tabulation shall be maintained showing the total waste flow or volume for each day.

3. A tabulation relative to bypassing and accidental waste spills shall be maintained showing information items listed in Sections F-1 and F-2 for each occurrence.

F. REPORTS TO BE FILED WITH THE REGIONAL BOARD

1. Spill Reports

   A report shall be made of any spill of oil or other hazardous material. Spills shall be reported to this Regional Board and the U. S. Coast Guard by telephone immediately after occurrence. A written report shall be filed with the Regional Board within five (5) days and shall contain information relative to:

   a. nature of waste or pollutant,

   b. quantity involved,

c. cause of spilling,

d. estimated size of effected area,

e. nature of effects (i.e., fishkill, discoloration of receiving water, etc.),

f. corrective measures that have been taken, or planned, and a schedule of these activities, and

g. persons notified.

2. Bypass Reports

Bypass reporting shall be an integral part of regular monitoring program reporting, and a report on bypassing of untreated waste or bypassing of any treatment unit(s) shall be made which will include cause, time and date, duration and estimated volume of waste bypassed, method used in estimating volume, and persons notified, for planned and/or unplanned bypass.

The discharger shall file a written technical report at least 15 days prior to advertising for bid on any construction project which would cause or aggravate the discharge of waste in violation of requirements; said report shall describe the nature, costs and scheduling of all action necessary to preclude such discharge. In no case should any discharge of sewage-bearing wastes be permitted without at least primary treatment and chlorination.

In the event the discharger is unable to comply with the conditions of the waste discharge requirements and prohibitions due to:

(a) maintenance work, power failures, or breakdown of waste treatment equipment, or
(b) accidents caused by human error or negligence, or
(c) other causes such as acts of nature,

the discharger shall notify the Regional Board office by telephone as soon as he or his agents have knowledge of the incident and confirm this notification in writing within two weeks of the telephone notification. The written report shall include pertinent information explaining reasons for the noncompliance and shall indicate what steps were taken to prevent the problem from recurring.

In addition, if the noncompliance caused by items (a), (b), or (c) above is with respect to any of the effluent limits, the waste discharger shall promptly accelerate his monitoring program to analyze the discharge at least once every day for those constituents which have been violated. Such daily analyses shall continue until such time as the Executive Officer determines to be appropriate. The results of such monitoring shall be included in the regular Self-Monitoring Report.

3. Self-Monitoring Reports

Written reports shall be filed regularly for each calendar quarter (unless specified otherwise) by the fifteenth of the following month. The reports shall include:

a. Letter of Transmittal

A letter transmitting self-monitoring reports should accompany each report. Such a letter shall include a discussion of requirement violations found during the past month and actions taken or planned for correcting violations, such as plant operation modifications and/or plant facilities expansion. If the discharger has previously submitted a detailed time schedule for correcting requirement violations, a reference to the correspondence transmitting such schedule will be satisfactory. Monitoring reports and the letter transmitting reports shall be signed by a principal executive officer at the level of vice-president or his duly authorized representative if such representative is responsible for the overall operation of the facility from which the discharge originates.

The letter shall contain a statement by the official, under penalty of perjury, that to the best of the signer's knowledge the report is true and correct.

b. Compliance Evaluation Summary

Each report shall be accompanied by a compliance evaluation summary sheet prepared by the discharger. The report format will be prepared using the example shown in APPENDIX A. The discharger will prepare the format using those parameters and requirement limits for receiving water and effluent constituents specified in his permits.

c. Map or Aerial Photograph

A map or aerial photograph shall accompany the report showing sampling and observation station locations.

d. Results of Analyses and Observations

Tabulations of the results from each required analysis specified in Section G by date, time, type of sample, and station signed by the laboratory director. The report format will be prepared using the examples shown in APPENDIX B.

e. Effluent Data Summary

Summary tabulations of the data to include for flow rate and each constituent total number of analyses, maximum, minimum and average values for each period.

f. List of Approved Analyses

(1) Listing of analyses for which the discharger is approved by the State Department of Health.

(2) List of analyses performed for the discharger by another approved laboratory (and copies of reports signed by the director of that laboratory shall also be submitted as part of the report).

4. Annual Reporting

By January 30 of each year, the discharger shall submit an annual report to the Regional Board covering the previous calendar year. The report shall contain a tabular summary of the monitorig data obtained during the previous year. In addition, the report shall contain a comprehensive discussion of the compliance record and the corrective actions taken or planned which may be needed to bring the discharger into full compliance with the waste discharge requirements. The report format will be prepared by the discharger using the examples shown in APPENDIX D and should be maintained and submitted with each regular self-monitoring report.

G. MONITORING SPECIFICATIONS

1. Description of Sampling Stations

a. Effluent

Station	Description
E-1	At any point in the outfall from the oil separator between the point of discharge and the point at which all waste tributary to it is present.
E-2	At any point in the outfall line from the Eastman Products Terminal underground 20,000 gallon tank between the delivery end of the submersible pump and the point of entry into the Terminal Drainage System.

b. Receiving Waters

Station	Description
C-1	Along an arc in Santa Fe Channel, located within twenty-five (25) feet from the point of discharge from the oil separator.

c. Land Observations

Station	Description
P-1 through P-'n'	Located along the waterfront of the terminal facilities, at equidistant intervals, not to exceed fifty (50) feet. (A sketch showing the locations of these stations will accompany each report.)

2. Schedule of Sampling and Analysis

a. The schedule of sampling and analysis shall be that given as Table I.

I, Roger B. James, Executive Officer, hereby certify that the foregoing Self-Monitoring Program:

1. Has been developed in accordance with the procedure set forth in this Regional Board's Resolution No. 73-16 in order to obtain data and document compliance with waste discharge requirements established in Regional Board Order No. 84-86.

2. Is effective on the date shown below.

3. May be reviewed at any time subsequent to the effective date upon written notice from the Executive Officer or request from the discharger and revisions will be ordered by the Executive Officer.

ROGER B. JAMES
Executive Officer

Attachment: Table I

Effective Date: January 9, 1985

TABLE 1 (continued)
SCHEDULE FOR SAMPLING, MEASUREMENTS, AND ANALYSIS

Sampling Station	E-1 Dry Weather		E-1 Wet Weather		C-1	P-1 thru P-'n'	E-2							
TYPE OF SAMPLE	G	O	G	O	O	O	G							
Flow Rate, mgd	D						E							
Oil & Grease mg/l (1)	M		M				E							
Oil & Grease lb/day	M													
pH, electrometric	M						E							
Toxicity, % Survival in waste as discharged	A						E							
Standard Observations		M		(2) M	W	W								

LEGEND FOR TABLE

Type of Sample

G = grab
O = observation

Type of Station

E = waste effluent
C = receiving water
P = perimeter of terminal site

Sampling Frequency

A = annually - when normal waste and tank bleed-off are being discharged
D = daily
W = weekly
M = monthly
E = each discharge from the tank

NOTES

1. The "daily average" limitation for oil and grease stated in the permit shall be deemed to have been exceeded if either:

   a. The arithmetic average of the analyses of all representative samples taken during a calendar month by the discharger in accordance with the monitoring requirements set forth above exceeds 30 mg/l; or

   b. The analyses of any two representative grab samples taken at least six (6) hours apart during any thirty (30) day period each individually exceed 30 mg/l.

   Each sample taken by either the discharger or the Agency shall be presumed to be representative. However, due to the variability of the sampling and analysis of oil and grease discharged from petroleum marketing terminals, the discharger may in good faith declare a maximum of 10% of the samples taken by it during a calendar year, but not more than one sample taken during any calendar month, to be non-representative. No sample may be so excluded if it is the only sample taken by the discharger during a calendar month. Such a declaration must be included in writing with the next Monitoring Report submitted in accordance with the permit, and must include the results of the analysis of the excluded sample and a written explanation for the exclusion of that sample. If any sample is so excluded, the "daily average" concentration shall be the arithmetic average of the analyses of the remaining non-excluded samples.

2. Observe during the first hour of runoff from the first daylight storm of each month.

Requirement Compliance Summary - An Example

TABLE 1 (5)

Parameter	Limit	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
WASTE EFFLUENT													
BOD	Arithmetic mean - 30 consecutive days 30mg/L												
	Arithmetic mean - 7 consecutive days 45mg/L												
	Percent removal - 85% 30 consecutive days												
SUSPENDED SOLIDS	Arithmetic mean - 30 consecutive days 30mg/L	0/1	1/1	1/1									
	Arithmetic mean - 7 consecutive days 45mg/L	2/4	4/4	4/4(3)									
	Percent removal - 85% 30 consecutive days												
FECAL COLIFORM BACTERIA	Geometric Mean - 30 consecutive days - 200 per 100ml	0/1	C/1	0/1(2)									
	Geometric mean - 7 consecutive days - 400 per 100ml												
pH	7.0 - 8.5	1/30											
TOXICITY	T_C - X_1 maximum	(1)											
	T_C - X_2 mean												
	TER - X_3 mgd												
TEMPERATURE	86° F maximum												
	△20° F of R/W ambient												
ZINC	0.5 mg/L maximum												
	4 kg/day mean 30 days												
	5 kg/day maximum												
BYPASSES	Number of occurrences												
RECEIVING WATER													
DISSOLVED OXYGEN	Minimum of 5.0 mg/L	2/2(4)	2/2(4)	2/2(4)									
pH	Minimum of 7.0 Maximum of 8.5												
DISSOLVED SULFIDES	Maximum of 0.1 mg/L												
COLIFORM ORGANISMS	Not more than 20% of the samples from any station shall exceed MPN of 1000/100ml in any 30-day period												
FLOATING SOLIDS OR FOAM													
FLOATING OIL													
TURBIDITY AND/OR DISCOLORATION													
ATMOSPHERIC ODOR OF WASTE ORIGIN													

FOOTNOTES:

(1) 4/30 means that on 4 of 30 days sampled during the indicated month, the pH requirement was violated.

(2) 0/1 means that the geometric mean for the 30 consecutive days in this month was less than 200/100ml Fecal Coliform.

(3) 4/4 means that all of 4 weekly arithmetic means exceeded 45 mg/L Suspended Solids.

(4) 2/2 means DO samples were collected on two days during each of the indicated months and on each sampling day at least one station was found in violation of requirement.

(5) Each discharger shall prepare his compliance summary using constituents and requirement limits specified in his permit.

MONITORING REPORT
RECEIVING WATERS, PONDS, PLANT SURVEYS

Date: Page of

STATION											
TIME											
STANDARD OBSERVATIONS:											
Floating Material — Type											
Source											
Extent											
Turbidity — Type											
Source											
Color — Type											
Source											
Bottom Deposits — Type											
Extent											
Algae, Plants — Type											
Source											
Extent											
Odors — Type											
Intensity											
Source											
Extent											
Weather											
Wind — Direction											
Speed(mph)											
Cuurent — Direction											
Speed(fps)											
Recreation — Type											
Number											
Wildlife											
Depth (feet) — Water											
Sample											
ANALYSES:											
Dissolved Oxygen mg/L											
Temperature °C											
Sulfides (mg/L) Total											
Dissolved											
pH Units											
Secchi Disk (inches)											
Turbidity JC Units											
Coliform MPN/100ml											
Ammonia Nitrogen mg/L											
Nitrate Nitrogen mg/L											
Nitrite Nitrogen mg/L											
Organic Nitrogen mg/L											
Phosphate (Total) mg/L											
Orthophosphate mg/L											
Total Dissolved Solids mg/L											
Chloride mg/L											
Chlorophyll a mg/L											
Electrical Conductivity µohm/cm											

TIDES

Elev.	Time

Analysis by: _____

(AN EXAMPLE)

EFFLUENT STANDARD OBSERVATIONS

Station _____

Month / Year / Date	TIMES OF OBSERVATIONS	FLOW RATE mgd	FLOATING MATERIAL			ODOR			
			Type	Source	Extent	Type	Intensity	Source	Extent
1									
2									
3									
4									
5									
6									
7									
8									
9									
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									
21									
22									
23									
24									
25									
26									
27									
28									
29									
30									
31									

-Hr. Composite Samples - Station _____ (APPENDIX B Page 3 of

YEAR / MONTH / Date	TOTAL FLOW MG		BOD		SUSPENDED MATTER		GREASE		TOXICITY				pH	TURBI-DI...
	Influent	Effluent	mg/L	kg/day	mg/L	kg/day	mg/L	kg/day	96-hr TL_{50} % Waste	% Survival Undiluted Waste (96-hr)	Toxicity Units	Toxicity Emission Rate	Units	TU
1														
2														
3														
4														
5														
6														
7														
8														
9														
10														
11														
12														
13														
14														
15														
16														
17														
18														
19														
20														
21														
22														
23														
24														
25														
26														
27														
28														
29														
30														
31														
Total			X		X		X		X	X			X	X
Max.														
Min.														
Avg.														

TABLE 2 - An Example

ANNUAL AVERAGE WASTE CHARACTERISTICS AND LOADING SUMMARY

(Unless otherwise noted, figures in the table are average values.)

PARAMETER / MONTH	FLOW			BOD		SUSPENDED SOLIDS		OIL & GREASE		FISH TOXICITY 96-HR BIOASSAY		NH_3-N		NO_3-N		ORGANIC-N		PHOSPHATE PO_4		HEAVY METALS (1)	
	Avg. Daily (=qd)	Max. Daily (=qd)	Min. Daily (=qd)	mg/l	kg/day	mg/l	kg/day	mg/l	kg/day	TL-50	% Survival in Effluent	mg/l	kg/day	mg/l	kg/day	mg/l	kg/day	mg/l	kg/day	mg/l	kg/day
JANUARY																					
FEBRUARY																					
MARCH																					
APRIL																					
MAY																					
JUNE																					
JULY																					
AUGUST																					
SEPT.																					
OCTOBER																					
NOVEMBER																					
DECEMBER																					
ANNUAL AVERAGE																					

FOOTNOTE: (1)Heavy metal concentrations and loadings should be given for each individual metal and should include at least Cadmium, Chromium, Copper, Lead, Mercury, and Zinc.